**3GPP TSG-SA5 Meeting #141-e *S5-221026***

**Online, , 17th Jan 2022 - 26th Jan 2022**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **28.622** | **CR** | **0127** | **rev** | **-** | **Current version:** | **17.0.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network | **X** |

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|  | | | | | | | | | | |
| ***Title:*** | Alarm Record changes | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson Hungary Ltd | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eNRM | | | | |  | ***Date:*** | | | 2022-01-03 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | A |  | | | | | ***Release:*** | | | Rel-17 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Managed elements often don't support acknowledgement of alarms as this is veiwed as higher layer management functionality; thus there is no need to duplicate it at the ManagedElement level.  The operation *acknowledgeAlarms* in TS 28.532 clause 11.2.1.2.1.1 is optional. The functionality should also be optional in the SBMA/NRM. | | | | | | | | |
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| ***Summary of change:*** | | In the data type AlarmRecord make the attributes ackUserId, ackTime and ackState optional to support. | | | | | | | | |
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| ***Consequences if not approved:*** | | As many network nodes don't implement the alarm acknowledgement functionality, they will not be compliant to the specification or just imitate the 3 attributes without real functionality behind them. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.37.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

***First change***

#### 4.3.27.2 Attributes

The attributes are defined in clause 11.2.2.1.5.1 of TS 28.532 [27]. Many of them are based on definitions in ITU-T X.733 [31].

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute name** | **S** | **isReadable** | **isWritable** | **isInvariant** | **isNotifyable** |
| alarmId | M | T | F | T | F |
| objectInstance | M | T | F | T | F |
| notificationId | M | T | F | T | F |
| alarmRaisedTime | M | T | F | F | F (note 5) |
| alarmChangedTime | O | T | F | F | F (note 6) |
| alarmClearedTime | M | T | F | F | F (note 7) |
| alarmType | M | T | F | T | F |
| probableCause | M | T | F | T | F |
| specificProblem | O | T | F | T | F |
| perceivedSeverity | M | T | T (note 4) | F | F(note 6) |
| backedUpStatus | O | T | F | F | F |
| backUpObject | O | T | F | F | F |
| trendIndication | O | T | F | F | F |
| thresholdInfo | O | T | F | F | F |
| stateChangeDefinition | O | T | F | F | F |
| monitoredAttributes | O | T | F | F | F |
| proposedRepairActions | O | T | F | F | F |
| additionalText | O | T | F | F | F |
| additionalInformation | O (see note 3) | T | F | F | F |
| rootCauseIndicator | O | T | F | F | F |
| ackTime | M | T | F | F | F |
| ackUserId | M | T | T (see note 8) | F | F |
| ackSystemId | O | T | T (see note 8) | F | F |
| ackState | M | T | T (see note 8) | F | F |
| clearUserId | O (see note 1) | T | T | F | F |
| clearSystemId | O (see note 1) | T | T | F | F |
| serviceUser | O (see note 2) | T | F | F | F |
| serviceProvider | O (see note 2) | T | F | F | F |
| securityAlarmDetector | O (see note 2) | T | F | F | F |
| NOTE 1: These attributes and qualifiers are applicable only if producer supports consumer to set perceivedSeverity to CLEARED.  NOTE 2: These attributes are supported if the producer emits notifyNewAlarm that carries security alarm information.  NOTE 3: This attribute is supported to carry vendor specific information.  NOTE 4: This isWritable property is True only if producer supports consumer to set perceivedSeverity to CLEARED  NOTE 5: Emit notifyNewAlarm.  NOTE 6: Emit notifyChangedAlarm  NOTE 7: Emit notifyClearedAlarm  NOTE 8: This isWritable property is True only if producer supports the consumer to acknowledge alarms. | | | | | |

***End of changes***